

**ADAPTIVE SUPPLY VOLTAGE BODY BIAS APPARATUS AND METHOD  
THEREOF****ABSTRACT**

An adaptive supply voltage and body bias apparatus includes a master controller including an operation state value. The apparatus and method includes a dynamic voltage supplier coupled to the master controller operative to receive a supply voltage indicator. The apparatus and method includes an adaptive body biaseer coupled to the master controller operative to receive a body bias indicator. Furthermore, the apparatus and method includes a plurality of computing devices each having one of a plurality of threshold voltages. The plurality of computing devices are operative to receive the supply voltage from the dynamic voltage supplier and a bias voltage from the adaptive body biaseer for optimized power supply in conjunction with reduction of power leakage in view of the varying threshold voltage of the computing devices.